

## Title (en)

Determination of a common fundamental frequency of harmonic signals

## Title (de)

Feststellung einer gemeinsamen Fundamentalfrequenz harmonischer Signale

## Title (fr)

Détermination d'une fréquence fondamentale commune de signaux harmoniques

## Publication

**EP 1686561 A1 20060802 (EN)**

## Application

**EP 05004066 A 20050224**

## Priority

- EP 05001817 A 20050128
- EP 05004066 A 20050224

## Abstract (en)

In order to determine the time course of the fundamental of harmonic signals, the following steps are carried out: The input signal is first split into different frequency channels by bandpass filters, The distances of zero crossings of different orders are calculated A histogram of all these distance values for each instant in time is calculated, wherein the distance values build a peak at the distance corresponding to the fundamental frequency. This method can be used e.g. to separate acoustic sound sources in monaural recordings based on their underlying fundamental frequency. The harmonic signals, however, can also originate from e.g. pressure sensors.

## IPC 8 full level

**G10L 25/90** (2013.01)

## CPC (source: EP US)

**G10L 25/90** (2013.01 - EP US)

## Citation (search report)

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## Designated contracting state (EPC)

DE FR GB

## DOCDB simple family (publication)

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## DOCDB simple family (application)

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